

PATENT COOPERATION TREATY

From the:
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

LEONTARIDIS, Athanasios
Vosporou 61
171 24 Nea Smirni
GREECE

PCT

WRITTEN OPINION

(PCT Rule 66)

Date of mailing (day/month/year)		04.04.2001
Applicant's or agent's file reference		REPLY DUE within 3 month(s) from the above date of mailing
International application No. PCT/GR00/00023	International filing date (day/month/year) 28/06/2000	Priority date (day/month/year) 28/06/1999
International Patent Classification (IPC) or both national classification and IPC E05B65/08		
Applicant LEONTARIDIS, Athanasios		

1. This written opinion is the first drawn up by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☐ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain document cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.


When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also: For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 28/10/2001.

Name and mailing address of the International preliminary examining authority:
 European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized officer / Examiner

Friedrich, A ext. 2869

Formalities officer (incl. extension of time limits)

Lindquist, P
Telephone No. +49 89 2399 2324

WRITTEN OPINIONInternational application No. **PCT/GR00/00023****I. Basis of the opinion**

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"):

Description, pages:

1-21 as originally filed

Claims, No.:

1-13 as originally filed

Drawings, sheets:

1/9-9/9 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

WRITTEN OPINIONInternational application No. **PCT/GR00/00023**☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawing: or on the question whether the claims are fully supported by the description, are made:
see separate sheet

**WRITTEN OPINION
SEPARATE SHEET**

International application No. PCT/GR00/00023

Re Item VII**Certain defects in the international application**

A document reflecting the prior art described on page 1 and 2, is not identified in the description (Rule 5.1(a)(ii) PCT). A relevant background art seems to be disclosed in the documents US-A-4 995 649 and FR-A-2 367 892 mentioned in the International Search Report.

Re Item VIII**Certain observations on the international application**

Although claims 1, 2 and 11 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter.

The aforementioned claims therefore lack conciseness.

Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

Furthermore, in claim 11 feature "oblong hook profile" is mentioned in the characterizing part of the claim as already known. This is not the case since it was never disclosed in the preamble of the claim.

Hence, claims 1, 2 and 11 do not meet the requirements of Article 6 PCT.

In order to overcome this objection, it would appear appropriate to file an amended set of claims defining the relevant subject-matter in terms of a single independent claim followed by dependent claims covering features which are merely optional (Rule 6.4 PCT).



Any information the applicant may wish to submit concerning the subject-matter of the invention, for example further details of its advantages or of the problem it solves, and for which there is no basis in the application as filed, should be confined to the letter of reply and not be incorporated into the application (Article 34(2)(b) PCT).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference ---	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/GR00/00023	International filing date (day/month/year) 28/06/2000	Priority date (day/month/year) 28/06/1999
International Patent Classification (IPC) or national classification and IPC E05B65/08		
Applicant LEONTARIDIS, Athanasios		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 4 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 14 sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application 		
Date of submission of the demand 24/01/2001	Date of completion of this report 15.10.2001	
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Friedrich, A Telephone No. +49 89 2399 2869 	

Form PCT/IPEA/409 (cover sheet) (January 1994)

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/GR00/00023

I. Basis of the report

1. With regard to the elements of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, pages:

1-21	as originally filed		
1a	as received on	01/08/2000	with letter of 28/06/2000

Claims, No.:

1-7	as received on	01/08/2000	with letter of 28/06/2000
-----	----------------	------------	---------------------------

Drawings, sheets:

1/9-9/9	as originally filed
---------	---------------------

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**International application No. **PCT/GR00/00023**

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-7
 No: Claims

Inventive step (IS) Yes: Claims 1-7
 No: Claims

Industrial applicability (IA) Yes: Claims 1-7
 No: Claims

- 2. Citations and explanations**
see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GR00/00023

Re Item V**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

The nearest prior art seem to be US-A-4 995 649 which discloses a lock assembly for sliding panels according to the preamble of independent claim 1.

Object of the invention is to present a lock assembly for sliding panels, which is more secure (undesired outside locking) and has a simple, inexpensive construction.

Solution: by means of the features of the characterizing part of claim 1 (special oblong hook profile and a lock mechanism for immobilizing a frontal hooking arm of the oblong hook profile within a recession of the facing part, thereby maintaining the frontal hooking arm in the locked position when acting upon the rear terminal arm for immobilizing the frontal terminal hooking arm in the locked position), neither disclosed in the available prior art nor obvious per se. The subject-matter of claim 1 seems to satisfy the criterion set forth in Article 33(2), (3) and (4) PCT.

Claims 2 to 7 relate to modifications of the invention of claim 1.

The subject-matter of these claims seems to satisfy the criterion set forth in Rule 6.4 PCT.

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

The International Bureau of WIPO
34, chemin des Colombettes
CH - 1211 Geneva 20
Switzerland

PCT

NOTIFICATION CONCERNING
DOCUMENTS TRANSMITTEDDate of mailing
(day/month/year)


15.10.2001

International application No: PCT/GR00/00023

This International Preliminary Examining Authority transmits herewith the following documents:

1. ☐ demand (Rule 61.1(a)).
2. ☒ copy of the international preliminary examination report and its annexes (Rule 71.1).
3. ☐ _____ other documents (*specify*):

Name and mailing address of the IPEA/

 European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized officer

Lindquist, P

Tel. +49 89 2399 - 324



PL22460, 10.10.2001

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

LEONTARIDIS, Athanasios
Vosporou 61
171 24 Nea Smirni
GRECE

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)		15.10.2001
Applicant's or agent's file reference ---		IMPORTANT NOTIFICATION
International application No. PCT/GR00/00023	International filing date (day/month/year) 28/06/2000	Priority date (day/month/year) 28/06/1999
Applicant LEONTARIDIS, Athanasios		


1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEAV	Authorized officer
 European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Lindquist, P Tel. +49 89 2399-2324



01-10-2001

1α

Locking devices of the prior art are among others known from U.S. Pat. No. 4 995 649 (Magnusson) and FR Pat. No. 2 357 892 (Aubin).

5 Magnusson discloses a locking device for sliding panels, primarily intended for use with yacht hatches, comprising a lock assembly being received in a housing mounted in a recess in an edge of a sliding panel, where the lock assembly contacts a closure member which bears a latch member. This locking device is adapted to be mounted completely flush with the panel to effect positive self-locking latching upon closing of the sliding panel, whilst it provides a handle means by the movement of
10 which unlatching and opening of the sliding panel is made possible.

Aubin discloses a latching device for sliding panels of the type in which the facing part of the latching device is being formed at a protruding member of the fixed frame profile which during closure of the sliding panel enters through a frontal opening of the vertically extending
15 sliding-panel profile to receive a locking-tongue member operated from the latching device embodied in the sliding panel profile.

01-10-2001

CLAIMS

- 1) Lock assembly for sliding door/window panels applicable to a series of frame profiles which in the region where the door/window panel shuts incorporate a vertically oriented protruding part (3) of the fixed frame profile (2) which is introduced into a frontal opening (7) of vertically oriented sliding door/window panel profile (1) which consists of two parallel walls (1a, 1b) and ends to another rear opening (8) into which a glass or shutter door/window panel is attached, characterized by that it comprises:
- 10 a hooking mechanism for the engagement of a hook into a suitably shaped recession of a facing part, said hooking mechanism being automatically activated to take a position of engagement when the sliding door/window panel shuts as said vertically oriented protruding part (3) of the fixed frame profile (2) enters through said frontal opening (7) in between the parallel walls (1a, 1b) of said
- 15 vertically oriented sliding door/window panel profile part (1) and being also automatically deactivated taking a position of disengagement of said hook from said recession in said facing part when the sliding door/window panel opens as said vertically oriented protruding part (3) bearing the suitably shaped recession
- 20 of said facing part is withdrawn through said frontal opening (7) of said profile (1), wherein said hooking mechanism features at least one oblong hook profile (21) containing a flat surface (22) with recessions (22a, 22b) on either side thereof for the mounting of a
- 25 compression spring (20), a centre (27) for rotatable connection of said oblong hook profile (21), a frontal terminal hooking arm (24) adapted for the engagement into said suitably shaped recession of

01-10-2001

23

the facing part, a rear terminal arm (26,26a) for immobilizing said frontal terminal hooking arm (24) in the locked position of engagement within said suitably shaped recession of the facing part and a sliding/rotating arm (25) which, when touching upon the frontal surface of said facing part, activates a rotation of a certain length of arc of said oblong hook profile (21), either in the direction of engagement of said hooking arm (24) into said recession of the facing part when the sliding door/window panel shuts or in the direction of disengagement of said hooking arm (24) from said recession of the facing part, when the sliding door/window panel opens,

at least one vertically extending flat surface protruding at right angles from the interior surface of at least one of said parallel walls (1a, 1b) of said vertically oriented sliding door/window panel profile (1) at a length corresponding to the length of said at least one oblong hook profile (21) and bearing a terminal shaping of a centre for the rotatable connection of said at least one oblong hook profile (21),

a facing part located onto said vertically oriented protruding part (3) of the fixed frame profile (2) including a frontal terminal surface (30,40) whereupon collides said sliding/rotating arm (25) to initiate rotation of said at least one oblong hook profile (21), said facing part being adapted to receive said at least one oblong hook profile (21) with at least one vertically extending recession (30a,40a) within which is engaged said frontal terminal hooking arm (24) of said at least one oblong hook profile (21), and

a locking mechanism for immobilizing said frontal terminal hooking arm (24) of said at least one oblong hook profile (21) within

said suitably shaped recession of the facing part, thereby maintaining said frontal terminal hooking arm (24) in the locked position when acting upon said rear terminal arm (26,26a) for immobilizing said frontal terminal hooking arm (24) in the locked
5 position:

2) Lock assembly for sliding door/window panels as claimed in above Claim 1, wherein said locking mechanism for immobilizing said frontal terminal hooking arm (24) of said at least one oblong
10 hook profile (21) within said suitably shaped recession of the facing part, thereby maintaining said frontal terminal hooking arm (24) in the locked position is alternatively selected to comprise:

a locking tongue (33) extending through an opening (32) along the surface separating a frontal chamber (4) of said
15 door/window panel profile (1) from a central chamber (5) thereof wherein is installed the mechanism for the operation of said locking tongue (33) which when being activated via this mechanism performs a rotation of a certain arc length and blocks movement of said rear terminal arm (26,26a) of said at least one oblong hook
20 profile (21) at a position in which said frontal terminal hooking arm (24) is engaged within said at least one vertically extending recession (30a,40a) of the facing part, or

a manually reciprocatingly moving button (50) fitted into an opening at the wall of the frontal chamber (5) of said door/window
25 panel profile (1) which is located opposite to the wall whereupon said at least one oblong hook profile (21) is rotatably connected, said button (50) acting so as to block movement of said rear terminal

arm (26,26a) of said at least one oblong hook profile (21) at a position in which said frontal terminal hooking arm (24) is engaged within said at least one vertically extending recession (30a,40a) of the facing part.

5

3) ¹⁶ Lock assembly for sliding door/window panels according to the above claim 2, wherein the mechanism for the operation of said locking tongue (33) which initiates rotation of a certain arc length of said locking tongue (33) and blocks movement of said rear terminal arm (26,26a) of said at least one oblong hook profile (21) at a position in which said frontal terminal hooking arm (24) is engaged within said at least one vertically extending recession (30a,40a) of the facing part, comprises:

15 a main body of internal cover plug means (60) which is fitted onto an opening of the profile (1) in the region of the chamber (5) and contains a rectangular cavity (83) which is covered by a plastic cover (76), said plastic cover (76) featuring a central elevated part (77) and equivalent flat blades (78,79) on either side thereof, wherein said flat blade (78) is reciprocatingly moving up and down tangentially to surface (84) which is located next to said cavity (83);

20 a button means (80) which consists of a rectangular surface (82) with a rectangular portion (81) onto one side thereof, said rectangular portion (81) bearing recessions (81a) on either side thereof via which it locks into respective protrusions (78a,79a) located at the bottom of said central elevated part (77) of the plastic cover (76), and with an axial pin (86) on the other side of said rectangular surface (82) of the button means (80);

25

the locking tongue (33) which contains a surface with a groove (91) in the form of a fork with right and left curvilinear legs (91a, 91b) on either side thereof, within which is alternatively introduced said axial pin (86) of the button means (80) so as to alternatively effect a clockwise or anticlockwise rotation of said locking tongue (33) and thereby render the same locking mechanism alternatively suitable for sliding door/window panels shutting either leftwards or rightwards, said locking tongue (33) further comprising a terminal hole (74) through which it is rotatably and off-centre connected on an axial shaft (72) extending underneath said main body of internal cover plug means (60);

a metallic or plastic cover means (66) comprising a central elevated part (67) and equivalent flat blades (68,69) on either side thereof, said locking tongue (33) being mounted within a cavity formed in the region of the elevated part (67), wherein the locking tongue (33) is nailed by means of a nail along said axial shaft (72), as the nail passes through an opening (67a) of the elevated part (67) and wherein said blades (68,69) are provided with holes (68a,69a) respectively for being nailed onto nails (70a, 71a) of the main body of the internal cover plug means (60), and

a main body of external cover plug means (61) positioned into an opening of profile (1) in the region of said chamber (5), exactly opposite the main body of said internal cover plug means (60), said external cover plug means (61) comprising internally threaded tubular members (63) on either side thereof, a pair of bolts (64) being employed to pass through holes (62) of the main body of said internal cover plug means (60) and subsequently be screwed within

01-10-2001

27

said threaded tubular members (63) of said external cover plug means (61) to render a compact structure of said locking mechanism which acts in response to reciprocating movement of said plastic cover (76) to sequentially render reciprocating movement of said button means (80) which is fixedly mounted onto the plastic cover (76) thereby initiating rotation of a certain arc length of said locking tongue (33) being pushed via said axial pin (86) which tracks the curvilinear path defined by either one of the pair of curvilinear legs (91a, 91b), thereby said locking tongue (33) protruding via said opening (32) into the chamber (4) of the profile (1) wherein said hooking mechanism is installed, so as to block movement of said rear terminal arm (26,26a) and maintain said frontal terminal hooking arm (24) of said at least one oblong hook profile (21) in a position of engagement within said suitably shaped recession of the facing part.

- 4) Lock assembly for sliding door/window panels according to the above claim 1, wherein said at least one vertically extending flat surface protruding at right angles from the interior surface of at least one of said parallel walls (1a,1b) of said vertically oriented sliding door/window panel profile (1) is alternatively selected to consist of either a formation of a surface (29) perpendicularly oriented onto at least one of said walls (1a,1b) of the frontal chamber (4) of said profile (1) or of an independent profile (48) in which a flat surface (49) is perpendicularly oriented onto at least one of said walls (1a,1b) of the frontal chamber (4) of said profile (1), an angular portion (42a,42b) of said independent profile (48)

being used for mounting said independent profile (48) onto the walls of said profile (1) and wherein said facing part located onto said vertically oriented protruding part (3) of the fixed frame profile (2) is alternatively selected to consist of either a formation onto the frontal surface of said vertically oriented protruding part (3) of the fixed frame profile (2) including a frontal surface (30) whereupon collides said sliding/rotating arm (25) to initiate rotation of said at least one oblong hook profile (21) and at least one vertically extending recession (30a) adapted to receive said frontal terminal hooking arm (24) of said at least one oblong hook profile (21) or of an independent profile (43) mounted onto said vertically oriented protruding part (3) of the fixed frame profile (2) and including a frontal surface (40) whereupon collides said sliding/rotating arm (25) to initiate rotation of said at least one oblong hook profile (21) and at least one vertically extending recession (40a) adapted to receive said frontal terminal hooking arm (24) of said at least one oblong hook profile (21).

5) Lock assembly for sliding door/window panels according to the above claim 4, said lock assembly being adapted to operate as a device of unilateral locking comprising a single oblong hook profile (21) rotatably connected to a single vertically extending flat surface protruding at right angles from the interior surface of one of said parallel walls (1a,1b) of said vertically oriented sliding door/window panel profile (1) and alternatively selected to consist of either a formation of a surface (29) perpendicularly oriented onto one of said walls (1a,1b) of the frontal chamber (4) of said profile (1) or of

01-10-2001

29

an independent profile (48) in which a flat surface (49) is perpendicularly oriented onto one of said walls (1a,1b) of the frontal chamber (4) of said profile (1), and cooperating with a facing part located onto the vertically oriented protruding part (3) of the fixed frame profile (2) and alternatively selected to consist of either a formation onto the frontal surface of said vertically oriented protruding part (3) of the fixed frame profile (2) including a frontal surface (30) whereupon collides said sliding/rotating arm (25) to initiate rotation of said at least one oblong hook profile (21) and one vertically extending recession (30a) adapted to receive said frontal terminal hooking arm (24) of said oblong hook profile (21) or of an independent profile (43) mounted onto said vertically oriented protruding part (3) of the fixed frame profile (2) and including a frontal surface (40) whereupon collides said sliding/rotating arm (25) to initiate rotation of said oblong hook profile (21) and one vertically extending recession (40a) adapted to receive said frontal terminal hooking arm (24) of said oblong hook profile (21).

6) Lock assembly for sliding door/window panels according to the above claim 4, said lock assembly being adapted to operate as a device of bilateral locking comprising a pair of oblong hook profiles (21) rotatably connected, one opposite to the other, to vertically extending flat surfaces protruding at right angles from the interior surface of said two parallel walls (1a,1b) of said vertically oriented sliding door/window panel profile (1), each one of said vertically extending flat surfaces protruding at right angles from the interior surface of said two parallel walls (1a,1b) being alternatively selected

to consist of either a formation of a surface (29) perpendicularly oriented onto one of said walls (1a,1b) of the frontal chamber (4) of said profile (1) or of an independent profile (48) in which a flat surface (49) is perpendicularly oriented onto one of said walls (1a,1b) of the frontal chamber (4) of said profile (1), and cooperating with a facing part located onto the vertically oriented protruding part (3) of the fixed frame profile (2) and alternatively selected to consist of either a formation onto the frontal surface of said vertically oriented protruding part (3) of the fixed frame profile (2) including a frontal surface (30) whereupon collide said sliding/rotating arms (25) to initiate rotation of said pair of oblong hook profiles (21) and a pair of vertically extending recessions (30a,30b) adapted to correspondingly receive said frontal terminal hooking arms (24) of said pair of oblong hook profiles (21) or of an independent profile (43) mounted onto said vertically oriented protruding part (3) of the fixed frame profile (2) and including a frontal surface (40) whereupon collide said sliding/rotating arms (25) to initiate rotation of said pair of oblong hook profiles (21) and a pair of vertically extending recessions (40a,40b) adapted to receive said frontal terminal hooking arms (24) of said pair of oblong hook profiles (21).

7. Lock assembly for sliding door/window panels according to the above claim 1, wherein rotatable connection of said at least one oblong hook profile (21) to said at least one vertically extending flat surface protruding at right angles from the interior surface of at least one of said parallel walls (1a,1b) is alternatively selected to be

AMENDED SHEET

01-10-2001

31

effected either with said centre (27) for rotatable connection of said oblong hook profile (21) being a cylindrical shaft (27b) fitted within a correspondingly dimensioned receiving recession (31a) of said terminal shaping of a centre for the rotatable connection of the oblong hook profile at said vertically extending flat surface protruding at right angles from the interior surface of at least one of said parallel walls (1a,1b) or with said centre (27) for rotatable connection of said oblong hook profile (21) being a cylindrical shaft (31) of said terminal shaping of a centre for the rotatable connection of the oblong hook profile at said vertically extending flat surface protruding at right angles from the interior surface of at least one of said parallel walls (1a,1b).

15

DRAWING AMENDMENTS

In accordance to instructions in the Revised Amendment Practice, a replacement sheet of originally filed drawing sheet 1/9 is included herein and transmitted hereinbelow, wherein Figures 1a, 1b, 2a, 2b are labeled

5 as "Prior Art".

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☒ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.